

From: [Barth, Edwin](#)
To: [Miller, Garyg](#)
Subject: RE: San Jacinto Feasibility Study
Date: Friday, November 22, 2013 10:13:59 AM

Gary, I will get back to you but I do raise similar questions with designs submitted by the ACOE and they usually think I am unreasonable and there is no problem

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From: Miller, Garyg
Sent: Friday, November 22, 2013 9:58 AM
To: Barth, Edwin
Cc: Sanchez, Carlos; Foster, Anne; Salinas, Amy
Subject: San Jacinto Feasibility Study

Ed,

Don't know if you have any experience with the issues below from the San Jacinto FS, but if you do have any comments on these statements I would appreciate your thoughts (such as significance of issues raised, accuracy, sheetpile use widespread? any EPA references that may clarify pros & cons of sheetpiles during remedial action; etc.). Sheetpiles are a part of several of the alternatives in the FS & would be used to reduce resuspension of sediments during excavation & removal of contaminated material.

Thanks,

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p. 41 of FS: "Further, case studies have shown that engineering controls used to control impacts from dredging such as sheetpiles may have limited effectiveness (Anchor Environmental 2005; Anchor QEA and Arcadis 2010) and can pose unintended consequences, such as concentration of dissolved-phase chemicals, localized scour



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adjacent to
the barrier, and/or the spread of contaminants during their removal.

p. 57 of FS: “The use of a sheetpile barrier does little to enhance the short-term effectiveness of this alternative because of documented effectiveness issues (Anchor Environmental 2005; Anchor QEA and Arcadis 2010; and USACE 2008) with engineered barriers, including:

- Incomplete isolation due to gaps in sheetpiles that may occur during installation
- The need to provide openings in the sheetpile to balance water pressures on both sides of the pile
- The potential for river-current-induced scour adjacent to the sheetpile.

In addition to these documented issues with sheetpile barriers, the use of sheetpiles increases the risk of recontamination and resuspension of soil/sediments during sheetpile installation and removal (Ecology 1995), and potential cross-contamination associated with driving sheetpiling through impacted materials into non-impacted material.”